GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

Public Health- Mosquito Menace-Implementation of Smart Mosquito Density Monitoring System in Vijayawada Municipal Corporation on pilot basis- Administrative sanction for an amount of Rs.1.55 Crores towards implementation of the Project-Accorded-Orders-Issued.

MUNICIPAL ADMINISTRATION AND URBAN DEVELOPMENT (B2) DEPARTMENT

G.O.Rt.No.147, Dated:14.03.2017.
Read the following:

1. From the DMA, A.P.Lr.Roc.No.12057/15/2016-M3, Dt.20.01.2017 & 23.01.2017.
2. From the DMA, A.P.Lr.Roc.No.12046/1/2017, Dt.01.03.2017.

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ORDER:

In the references read above, the Director of Municipal Administration, A.P. Guntur has submitted proposal for Implementation of Smart Mosquito Density Monitoring System in Vijayawada Municipal Corporation on pilot basis, with an amount of Rs.1.55 Cores, as instructed by the Hon'ble Chief Minister during the Collectors Conference. He has further submitted that the project will effectively control, prevent and monitor vector borne diseases by getting real time mosquito data by area, species and gender.

2. The Director of Municipal Administration, A.P. Guntur has submitted that, the project cost, Salient features and Key components of the solution are as below:

Project cost: Rs.1.55 Crores.

Area	— 62 Sq.KMs.
No. of devices required	— 620
Cost of devices	— Rs.1.36 Crs. (Rs.22,000/-per device x 620 devices)
Subscription charge for one Year	- Rs. 19.00 lakhs (@Rs.250/- per month per device)
Total cost: --	Rs.1.55 Crs.

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Salient features:

- The Mosquito detection and classification system proposed will utilise a combination of optical sensor technologies to detect, count, classify by species, and determine the percentage of male and females encountered. The sensor package will be housed in a weather resistant enclosure designed to be cost effective for manufacture and low maintenance, requiring little human interaction after installation. Sensors will be installed on electric poles or other relevant public infrastructure.

- The system will offer the additional benefits of incorporating the latest Internet of Things (loT) technologies making it an autonomous system capable of directly reporting time-stamped data including, sensor location, mosquito population densities, and species to Health Department and other departments dealing with Public Health. This data will provide the most accurate and immediate link for these agencies in combating vector borne illnesses.

Key Components of the solution:

- ✓ Fully functional autonomous detection systems with loT communications and "cloud" based data storage.

- ✓ Project report to demonstrate system capability to alert government agencies to the need for geographically specific insect control treatment and the resulting effectiveness of the treatment.

- ✓ Sensor system design with flexibility to incorporate additional environmental monitoring functionality (such as; temperature, humidity etc)

3. The Director of Municipal Administration, has further stated that, an amount of Rs.5.00 Crores is available in the State Budget under the HOA "2217-80-191-11-17-310-312 (Information System Improvement Plan)" of the year 2016-17 and since the amount will be lapsed by 31.03.2017, the same may be utilized for implementation of Project Smart Mosquito Density Monitoring System in Vijayawada at a cost of Rs.1.55 Crores. He has further stated that, the project will be implemented in Vijayawada on pilot basis and all due procedure will be followed for scaling up the project throughout the State, after assessing the results of the pilot project and benefits.

(Contd…3)

4. The Director of Municipal Administration, A.P. has therefore requested the Government to consider the proposal to sanction of Innovative Project 'Smart Mosquito Density Monitoring System' for implementation in Vijayawada Municipal Corporation on pilot basis and the expenditure may be sanctioned and released under the Head of Account of Municipal Administration & Urban Development Department, i.e., 2217-80-191-11-17-310-12 (Information system Improvement Plan) of the year 2016-17.

5. Government after careful examination of the matter, and keeping in view the mosquito menace in Vijayawada Municipal Corporation, Vijayawada, hereby permit the Director of Municipal Administration, A.P., to implement the Project 'Smart Mosquito Density Monitoring System' in Vijayawada Municipal Corporation on pilot basis and administration sanction is hereby accorded to the Director of Municipal Administration, A.P., for an amount of Rs.1.55 Crores (Rupees One crore fifty five lakhs) towards implementation of the above project on pilot basis in Vijaywada Municipal Corporation, Vijayawada.

6. The Director of Municipal Administration, A.P., is also permitted to go for tenders for implementation of 'Smart Mosquito Density Monitoring System' in Vijayawada Municipal Corporation, Vijayawada on pilot basis.

7. The amount sanctioned at para (5) above, shall be debited to the Head of Account "2217-80-191-11-17-310-312 (Information System Improvement Plan) of the year 2016-17.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

R.KARIKALA VALAVEN
PRINCIPAL SECRETARY TO GOVERNMENT

To
The Director of Municipal Administration,
A.P. Gorantla, Guntur.
The Commissioner,
Vijayawada Municipal Corporation, Vijayawada.
Copy to:
The DTA, Vijayawada, Krishna District.
The Accountant General, A.P. Hyderabad.
The Finance (FMU (I,E,M) Department
PS to Prl.Secretary to Hon'ble CM
OSD to Hon'ble CM
PS to Principal Secretary to Govt., MA&UD Department.
Sf/Sc.

FORWARDED :: BY ORDER

SECTION OFFICER